

TECHNIQUE FOR DETERMINING THE SLOPE OF A FIELD PIXEL

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ABSTRACT

[0081] A technique for determining the slope of a field pixel is described. According to the technique, one or more sets of diagonal field pixels are downsampled (or downsampled) before they are provided to respective edge detector circuits. By downscaling the sets of diagonal field pixels before they are provided to respective detector circuits, the edge detector circuits detect diagonal edges and, in particular, shallow diagonal edges with greater accuracy. As such, the slopes assigned to the field pixels are more likely to be correct. This ultimately results in a high quality progressive video signal that can be used to generate an image that is completely or substantially free from objectionable artifacts.